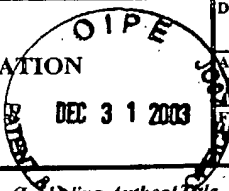
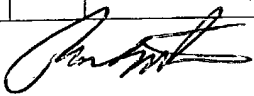




<b>INFORMATION DISCLOSURE CITATION</b> (Use several sheets if necessary)		Docket Number (Optional) 1941-7	Application Number 09/481,988
Applicant(s) Paul J. BRUINSMA et al		Filing Date 1/11/00	
Group Art Unit 1755			



*EXAMINER INITIAL	OTHER DOCUMENTS	(Including Author, Title, Date, Pertinent Pages, Etc.)
Jm	3	J.S. Beck, J.C. Vartuli, W.J. Roth, M.E. Leon wicz, C.T. Kresge, K.D. Schmitt, C.T-W Chu, D.H. Olson, E.W. Sheppa, S.B. McCullen, J.B. Higgins and J.L. Schlenker, A New Family of Mesoporous Molecular Sieves Prepared with Liquid Crystal Templates, J. Am. Chem. Soc., 1992, 114:10835 (No month avail.).
Jm	4	Qisheng Huo, David I. Margolese, Ulike Ciesla, Dirk G. Demouth, Pingyun Feng, Thurman E. Gier, Peter Sieger, Ali Firouzi, Bradley F. Chmelka, Ferdi Schuth and Galen D. Stucky, Organization of Organic Molecules with Inorganic Molecular Species into Nanocomposite Biphasic Arrays, Chem. Mater. 1994, 6: 1176-1191 (No month avail.).
Jm	5	A. Firouzi, D. Kumar, L.M. Bull, T. Besier, P. Sieger, Q. Iluo, S.A. Walker, J.A. Zasadzinski, C. Glinka, J. Nicol, D. Margolese, G.D. Stucky, B.F. Chmelka, Cooperative Organization of Inorganic-Surfactant and Biomimetic Assemblies, Science vol. 267, Feb. 24, 1995, pp. 1138-1143.
Jm	6	Peter T. Taney and Thomas J. Pinnavaia, A Neutral Templating Route to Mesoporous Molecular Sieves, Science, vol. 267, Feb. 10, 1995, pp. 865-867.
Jm	7	Stephen A. Bagshaw, Eric Prouzet and Thomas J. Pinnavaia, Templating of Mesoporous Molecular Sieves by Nonionic Polyethylene Oxide Surfactants, Science vol. 269, Sep. 1, 1995, pp. 1243-1244.
Jm	8	Peter T. Taney and Thomas J. Pinnavaia, Mesoporous Silica Molecular Sieves Prepared by Ionic and Neutral Surfactant Templating: A Comparison of Physical Properties, Chem. Mater. 1996 vol. 8, 2068-2079 (No month avail.).
Jm	9	David M. Antonelli and Jackie Y. Ying, Synthesis of a Stable Hexagonally Packed Mesoporous Niobium Oxide Molecular Sieve Through a Novel Ligand-Assisted Templating Mechanism, Angew, Chem. Int. Ed. Engl., 1996, vol. 35, No. 4, pp. 426-430 (No month avail.).
Jm	10	David M. Antonelli and Jackie Y. Ying, Synthesis and Characterization of Hexagonally Packed Mesoporous Tantalum Oxide Molecular Sieves, Chem. Mater. 199, vol. 8, pp. 874-881 (No date avail.).
Jm	11	Ilrike Siesla, Steffan Schacht, Glen D. Stucky, Klaus K. Unger and Ferdi Schuth, Formation of a Porous Zirconium Oxide Phosphate with a High Surface Area by a Surfactant-Assisted Synthesis, Angew, Chem. Int. Ed. Engl. 1996, 35, No. 5, pp. 541-543 (No month avail.).
Jm	12	Sandra L. Burkett, Stephen D. Sims and Stephen Mann, Synthesis of Hybrid Inorganic-Organic Mesoporous Silica by Co-Condensations of Siloxane and Oranosiloxane Precursors, Chem. Commun., 1996, pp. 1367-1368 (No month avail.).
Jm	13	K.R. Kloetstra, J.C. Jansen and J. Van Bekkum, Composite Molecular Sieve Comprising MCM-41 with Intrapore ZS Structures, Symposium on Advances in FCC Conversion Catalysts presented before the Division of Petroleum Chemistry, Inc. 211th National Meeting, American Chemical Society, New Orleans, LA, Mar. 24-29, 1996.
Jm	14	Hong Yang, Neil Coombs, Igor Sokolov and Geoffrey A. Ozin, Free-standing and Oriented Mesoporous Silica Films Grown at the Air-Water Interface, Nature, vol. 381, Jun. 13, 1996, pp. 589-592.

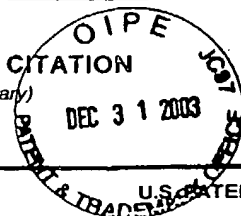
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# INFORMATION DISCLOSURE CITATION

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## U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>Am</i>	4,913,966	04/03/90	Garvey	—	—	
<i>Am</i>	5,057,296	10/15/91	Beck	—	—	X
<i>Am</i>	5,098,684	03/24/92	Kresge	—	—	X
<i>Am</i>	5,102,643	04/07/92	Kresge	—	—	X
<i>Am</i>	5,104,515	04/15/92	Chu	—	—	X
<i>Am</i>	5,108,725	04/28/92	Beck	—	—	X
<i>Am</i>	5,112,589	05/12/92	Johnson	—	—	X
<i>Am</i>	5,145,816	09/08/92	Beck	—	—	X
<i>Am</i>	5,156,829	10/29/92	McCullen	—	—	X
<i>Am</i>	5,198,203	03/30/93	Kresge	—	—	X
<i>Am</i>	5,211,934	05/18/93	Kresge	—	—	X

NO DATE

## FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
<del>P1</del>	<del>WO 91/11390</del>		<del>PCT</del>			X	
<del>P2</del>	<del>WO 96/39357</del>		<del>PCT</del>			X	

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

<i>Am</i>	R15	Chemical Abstracts, vol. 52: 798e
<i>Am</i>	R16	Organization of Organix Molecules with Inorganic Molecular Species in Nanocomposite Biphasic Arrays, Huo, et al, American Chemical Society, 1994, 6, pp. 1176-1191.

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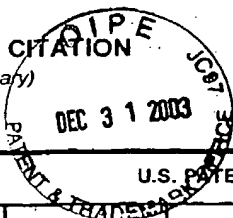
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## U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>Ch</i>	5,215,737	06/01/93	Chu	—	—	X
<i>Ch</i>	5,238,676	08/24/93	Roth	—	—	X
<i>Ch</i>	5,250,282	10/05/93	Kresge	—	—	X
<i>Ch</i>	5,256,277	10/26/93	DelRossi	—	—	X
<i>Ch</i>	5,264,203	11/23/93	Beck	—	—	X
<i>Ch</i>	5,300,277	04/15/94	Kresge	—	—	X
<i>Ch</i>	5,321,102	06/14/94	Loy	—	—	
<i>Ch</i>	5,470,802	11/28/95	Gnade	—	—	X
<i>Ch</i>	5,472,913	12/05/95	Havemann	—	—	X
<i>Ch</i>	5,494,858	02/27/96	Gnade	—	—	X
<i>Ch</i>	5,504,042	04/02/96	Cho	—	—	X

## FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

<i>Ch</i>	R17	Formation of Novel Oriented Transparent Films of Layered Silica-Surfactant Nanocomposites, M. Ogawa, American Chemical Society, 1994, 116, pp. 7941-7942.
<i>Ch</i>	R18	Synthesis of Oriented Films of Mesoporous Silica on Mica, Tang et al, Nature, vol. 379, 1996, p. 703.

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## U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>Sm</i>	5,523,615	06/04/96	Cho	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<i>Sm</i>	5,561,318	10/01/96	Gnade	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<i>Sm</i>	5,565,142	10/15/96	Deshpande	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<i>Sm</i>	5,622,684	04/22/97	Pinnavaia	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<i>Sm</i>	5,625,108	04/29/97	Perego	<input type="checkbox"/>	<input type="checkbox"/>	
<i>Sm</i>	5,647,962	07/15/97	Jansen	<input type="checkbox"/>	<input type="checkbox"/>	
<i>Sm</i>	5,661,344	08/26/97	Havemann	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<i>Sm</i>	5,723,368	03/03/98	Cho	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<i>Sm</i>	5,736,425	04/07/98	Smith	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
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<i>Sm</i>	5,789,819	08/04/98	Gnade	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

<i>Sm</i>	<input checked="" type="checkbox"/>	R19	Free-Standing and Oriented Mesoporous Silica Films Grown in the Air-Water Interface, Yanh et al., Nature, 1996, vol. 381, p. 589.
<i>Sm</i>	<input checked="" type="checkbox"/>	R20	The Physics and Chemistry of Sol-Gel Processing, SOL-GEL Science, Brinker et al., p. 109 ( <del>NO DATE</del> )

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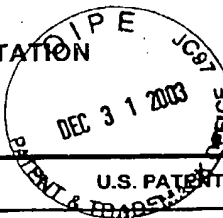
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## U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>jm</i>	5,795,556	08/18/98	Jansen	<del>—</del>	<del>—</del>	
<i>jm</i>	5,795,559	08/18/98	Pinnavaia	<del>x</del>	<del>—</del>	
<i>jm</i>	5,800,799	09/01/98	Pinnavaia	<del>x</del>	<del>—</del>	
<i>jm</i>	5,804,508	09/08/98	Gnade	<del>x</del>	<del>—</del>	
<i>jm</i>	5,807,607	09/15/98	Smith	<del>x</del>	<del>—</del>	
<i>jm</i>	5,840,271	11/24/98	Carrazza	<del>x</del>	<del>—</del>	
<i>jm</i>	5,847,443	12/08/98	Cho	<del>x</del>	<del>—</del>	
<i>jm</i>	5,922,299	07/13/99	Bruinsma	<del>x</del>	<del>—</del>	
<i>jm</i>	5,364,797	11/15/94	Olson			

## FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

<i>jm</i>	R21	A simple sol-gel route for the preparation of silica-surfactant mesostructured material, M. Ogawa, Chem, Commun. 1991 pp. 1149-1150.
<i>jm</i>	R22	Continuous Mesoporous Silica Films with Highly Ordered Large Pore Structures, Zhao et al, Adv. Matter, 1998, vol. 10 pp. 1380-1385.

EXAMINER

*John Smith*

DATE CONSIDERED

3/15/04

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# INFORMATION DISCLOSURE CITATION

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Docket Number (Optional)

1941-7

Application Number

Applicant(s)

Paul J. BRUINSMA et al.

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Group Art Unit

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OTHER DOCUMENTS

(Including Author, Title, Date, Pertinent Pages, Etc.)

Micelle Formation, Nonionic Surfactants, Schick, p. 895.

R23

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